Transformación de AFD a AFD-mínimo

π0 =   
 l

({0,1,2,3,4,5,6,7,9,10,11,12,13,14,16,17,18,19,20,21,22,24,25,26,27,28,29,31,32,33,34,35,36,37,39,40,41,42,43,44,45,47,48,49,50,51,52,53,555,56,57,58,59,60,62,63,64,65,66,67,68,70,71,72}

ll

{8,15,23,30,38,46,54,61,69})

|  |  |  |  |
| --- | --- | --- | --- |
|  | Min | May | Num |
| 0 | I | I | I |
| 1 | I | I | I |
| 2 | I | I | I |
| 3 | I | I | I |
| 4 | I | I | I |
| 5 | I | I | I |
| 6 | II | I | I |
| 7 | II | II | II |
| 9 | I | I | I |
| 10 | I | I | I |
| 11 | I | I | I |
| 12 | I | I | I |
| 13 | I | I | II |
| 14 | II | II | II |
| 16 | I | I | I |
| 17 | I | I | I |
| 18 | I | I | I |
| 19 | I | I | I |
| 20 | I | I | II |
| 21 | II | II | II |
| 22 | II | I | I |
| 24 | I | I | I |
| 25 | I | I | I |
| 26 | I | I | I |
| 27 | I | I | I |
| 28 | I | II | I |
| 29 | II | II | II |
| 31 | I | I | I |
| 32 | I | I | I |
| 33 | I | I | I |
| 34 | I | I | I |
| 35 | I | I | I |
| 36 | II | II | II |
| 37 | II | I | I |
| 39 | I | I | I |
| 40 | I | I | I |
| 41 | I | I | I |
| 42 | I | I | I |
| 43 | I | II | I |
| 44 | II | I | I |
| 45 | II | II | II |
| 47 | I | I | I |
| 48 | I | I | I |
| 49 | I | I | I |
| 50 | I | I | I |
| 51 | I | I | I |
| 52 | II | II | II |
| 53 | I | I | II |
| 55 | I | I | I |
| 56 | I | I | I |
| 57 | I | I | I |
| 58 | I | I | I |
| 59 | I | II | I |
| 60 | II | II | II |
| 62 | I | I | I |
| 63 | I | I | I |
| 64 | I | I | I |
| 65 | I | I | I |
| 66 | I | I | II |
| 67 | I | II | I |
| 68 | II | II | II |
| 70 | I | I | I |
| 71 | I | I | I |
| 72 | I | I | I |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Min | May | Num |
| 8 | II | II | II |
| 15 | II | II | II |
| 23 | II | II | II |
| 30 | II | II | II |
| 38 | II | II | II |
| 46 | II | II | II |
| 54 | II | II | II |
| 61 | II | II | II |
| 69 | II | II | II |

π1 =

{ I

(0,1,2,3,4,5,9,10,11,12,16,17,18,19,24,25,26,27,31,32,33,34,35,39,

40,41,42,47,48,49,50,51,55,56,57,58,62,63,64,65,70,71,72)

II

(6,22,37,44)

III

(28,43,59,67)

IV

(13,20,53,66)

V

(7,14,21,29,36,45,52,60,68)

VI

(8,15,23,30,38,46,54,61,69)

}

|  |  |  |  |
| --- | --- | --- | --- |
|  | Min | May | Num |
| 0 | I | I | I |
| 1 | I | I | I |
| 2 | I | I | I |
| 3 | V | II | II |
| 4 | V | II | II |
| 5 | V | V | V |
| 9 | I | I | I |
| 10 | IV | IV | V |
| 11 | IV | IV | V |
| 12 | V | V | V |
| 16 | I | I | I |
| 17 | IV | I | II |
| 18 | V | II | II |
| 19 | IV | IV | V |
| 24 | I | I | I |
| 25 | V | V | V |
| 26 | III | V | III |
| 27 | III | V | III |
| 31 | I | I | I |
| 32 | I | I | I |
| 33 | V | II | II |
| 34 | V | II | II |
| 35 | V | V | V |
| 39 | I | I | I |
| 40 | III | II | I |
| 41 | V | II | II |
| 42 | III | V | III |
| 47 | I | I | I |
| 48 | I | I | I |
| 49 | V | V | V |
| 50 | IV | IV | V |
| 51 | IV | IV | V |
| 55 | I | I | I |
| 56 | V | V | V |
| 57 | III | V | III |
| 58 | III | V | III |
| 62 | I | I | I |
| 63 | I | IV | III |
| 64 | III | V | III |
| 65 | IV | IV | V |
| 70 | IV | I | II |
| 71 | III | II | I |
| 72 | I | IV | III |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Min | May | Num |
| 6 | VI | II | II |
| 22 | VI | II | II |
| 37 | VI | II | II |
| 44 | VI | II | II |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Min | May | Num |
| 28 | III | VI | III |
| 43 | III | VI | III |
| 59 | III | VI | III |
| 67 | III | VI | III |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Min | May | Num |
| 13 | IV | IV | VI |
| 20 | IV | IV | VI |
| 53 | IV | IV | VI |
| 66 | IV | IV | VI |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Min | May | Num |
| 7 | V | V | V |
| 14 | V | V | V |
| 21 | V | V | V |
| 29 | V | V | V |
| 36 | V | V | V |
| 45 | V | V | V |
| 52 | V | V | V |
| 60 | V | V | V |
| 68 | V | V | V |

π2 = {

I

(0,1,2,9,16,24,31,32,39,47,48,55,62)

II

(3,4,18,33,34,41)

III

(5,12,25,35,49,56)

IV

(10,11,19,50,51,65)

V

(17,70)

VI

(26,27,42,57,58,64)

VII

(40,71)

VIII

(63,72)

IX

(6,22,37,44)

X

(28,43,59,67)

XI

(13,20,53,66)

XII

(7,14,21,29,36,45,52,60,68)

XIII

(8,15,23,30,38,46,54,61,69)

}

|  |  |  |  |
| --- | --- | --- | --- |
|  | Min | May | Num |
| 0 | I | I | I |
| 1 | I | I | I |
| 2 | III | II | II |
| 9 | IV | IV | III |
| 16 | IV | V | II |
| 24 | VI | III | VI |
| 31 | I | I | I |
| 32 | III | II | II |
| 39 | VI | II | VII |
| 47 | I | I | I |
| 48 | IV | IV | III |
| 55 | VI | III | VI |
| 62 | VIII | IV | VI |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Min | May | Num |
| 3 | XII | IX | IX |
| 4 | XII | IX | IX |
| 18 | XII | IX | IX |
| 33 | XII | IX | IX |
| 34 | XII | IX | IX |
| 41 | XII | IX | IX |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Min | May | Num |
| 5 | XII | XII | XII |
| 12 | XII | XII | XII |
| 25 | XII | XII | XII |
| 35 | XII | XII | XII |
| 49 | XII | XII | XII |
| 56 | XII | XII | XII |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Min | May | Num |
| 10 | XI | XI | XII |
| 11 | XI | XI | XII |
| 19 | XI | XI | XII |
| 50 | XI | XI | XII |
| 51 | XI | XI | XII |
| 65 | XI | XI | XII |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Min | May | Num |
| 17 | XI | V | IX |
| 70 | XI | V | IX |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Min | May | Num |
| 26 | X | XII | X |
| 27 | X | XII | X |
| 42 | X | XII | X |
| 57 | X | XII | X |
| 58 | X | XII | X |
| 64 | X | XII | X |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Min | May | Num |
| 40 | X | IX | VII |
| 71 | X | IX | VII |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Min | May | Num |
| 63 | VIII | XI | X |
| 72 | VIII | XI | X |

π3 = {

I

(0,1,31,47)

II

(2, 32)

III

(9,48)

IV

(16)

V

(24,55)

VI

(39)

VII

(62)

VIII

(3,4,18,33,34,41)

IX

(5,12,25,35,49,56)

X

(10,11,19,50,51,65)

XI

(17,70)

XII

(26,27,42,57,58,64)

XIII

(40,71)

XIV

(63,72)

XV

(6,22,37,44)

XVI

(28,43,59,67)

XII

(13,20,53,66)

XIII

(7,14,21,29,36,45,52,60,68)

XIV

(8,15,23,30,38,46,54,61,69)

}

|  |  |  |  |
| --- | --- | --- | --- |
|  | Min | May | Num |
| 0 | I | I | I |
| 1 | III | IV | II |
| 31 | V | II | VI |
| 47 | VII | III | V |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Min | May | Num |
| 2 | IX | VIII | VIII |
| 32 | IX | VIII | VIII |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Min | May | Num |
| 9 | X | X | IX |
| 48 | X | X | IX |
|  | Min | May | Num |
| 24 | XII | IX | XII |
| 55 | XII | IX | XII |

π4 = {

I

(0)

II

(1)

III

(31)

IV

(47)

V

(2,32)

VI

(9,48)

VII

(16)

VIII

(24,55)

IX

(39)

X

(62)

XI

(3,4,18,33,34,41)

XII

(5,12,25,35,49,56)

XIII

(10,11,19,50,51,65)

XIV

(17,70)

XV

(26,27,42,57,58,64)

XVI

(40,71)

XVII

(63,72)

XVIII

(6,22,37,44)

XIX

(28,43,59,67)

XX

(13,20,53,66)

XXI

(7,14,21,29,36,45,52,60,68)

FINAL

(8,15,23,30,38,46,54,61,69)

}